

In the Claims:

Please amend claims 1-22 as follows:

1. (Currently amended) A write and/or erase method adapted to ~~for~~ a storage apparatus having a function of changing a write and/or erase power of which writes and/or erases information by irradiating a light beam with respect to a target track on a recording medium, comprising the steps of:

(a) ~~setting a write and/or erase power of the light beam depending on a region of the recording medium where the target track is located; and~~

(b) ~~changing a write and/or erase slice level for detecting an off-track of the light beam with respect to each track on the recording medium depending on the write and/or erase power.~~

2. (Currently amended) The write and/or erase method as claimed in claim 1, wherein said step (a)(b) decreases the write and/or erase slice level depending on an increase of the write and/or erase power or, increases the write and/or erase slice level depending on a decrease of the write and/or erase power.

3. (Currently amended) The write and/or erase method as claimed in claim 1, wherein said step (a)(b) also ~~sets~~changes an off-track detection time constant depending on the write and/or erase power.

4. (Currently amended) The write and/or erase method as claimed in claim 1, wherein said step (a)(b) also setschanges a shock detection time constant for detecting an external vibration or shock depending on the write and/or erase power.

5. (Currently amended) A write and/or erase method adapted to for a storage apparatus ~~having a function of changing a write and/or erase power of which writes and/or erases information by irradiating a light beam with respect to a target track on a recording medium, comprising the steps of:~~

- (a) setting a write and/or erase power of the light beam depending on a region of the recording medium where the target track is located; and
- (b) changing a write and/or erase slice level for detecting an external vibration or shock applied on the storage apparatus with respect to each track on the recording medium depending on the write and/or erase power.

6. (Currently amended) The write and/or erase method as claimed in claim 5, wherein said step (a)(b) decreases the write and/or erase slice level depending on an increase of the write and/or erase power or, increases the write and/or erase slice level depending on a decrease of the write and/or erase power or,

7. (Currently amended) The write and/or erase method as claimed in claim 5, wherein said step (a)(b) also setschanges an off-track detection time constant depending on the write and/or erase power.

8. (Currently amended) The write and/or erase method as claimed in claim 5, wherein said step (a)(b) also setschanges a shock detection time constant for detecting an external vibration or shock depending on the write and/or erase power.

9. (Currently amended) A write and/or erase method adapted to for a storage apparatus having a function of changing a write and/or erase power of which writes and/or erases information by irradiating a light beam with respect to a target track on recording medium, comprising the steps of:

- (a) setting a write and/or erase power of the light beam depending on a region of the recording medium where the target track is located; and
- (b) changing at least one parameter selected from write and/or erase parameters depending on the write and/or erase power, said write and/or erase parameters including a write and/or erase slice level for detecting an off-track of the light beam with respect to ~~a~~each track on the recording medium, an off-track detection time constant, a write and/or erase slice level for detecting an external vibration or shock applied on the storage apparatus, and a shock detection time constant for detecting the external vibration or shock.

10. (Currently amended) The write and/or erase method as claimed in claim 9, wherein a dependency ~~of~~with which the write parameters are changed with respect to the write power is different from a dependency ~~of~~with which the erase parameters are changed with respect to the erase power.

11. (Currently amended) The write and/or erase method as claimed in claim 9, further comprising the step of:

~~(b)(c)~~ judging a type of the recording medium,  
said step ~~(a)(b)~~ being carried out when said step ~~(b)(c)~~ judges that the recording medium is a high-density recording medium.

12. (Currently amended) A storage apparatus ~~having a function of changing a write and/or erase power of~~which writes and/or erases information by irradiating a light beam with respect to a target track on a recording medium, comprising:

a setting section for setting~~configured to set a write and/or erase power of the light beam depending on a region of the recording medium where the target track is located; and~~

a changing section configured to change a write and/or erase slice level for detecting an off-track of the light beam with respect to each track on the recording medium depending on the write and/or erase power.

13. (Currently amended) The storage apparatus as claimed in claim 12, wherein said settingchanging section decreases the write and/or erase slice level depending on an increase of the write and/or erase power or, increases the write and/or erase slice level depending on a decrease of the write and/or erase power.

14. (Currently amended) The storage apparatus as claimed in claim 12, wherein said settingchanging section also setschanges an off-track detection time constant depending on the write and/or erase power.

15. (Currently amended) The storage apparatus as claimed in claim 12, wherein said settingchanging section also setschanges a shock detection time constant for detecting an external vibration or shock depending on the write and/or erase power.

16. (Currently amended) A storage apparatus having-a function of changing a write and/or erase power of which writes and/or erases information by irradiating a light beam with respect to a target track on a recording medium, comprising:  
a setting section for settingconfigured to set a write and/or erase power of the light beam depending on a region of the recording medium where the target track is located; and

a changing section configured to change a write and/or erase slice level for detecting an external vibration or shock applied on the storage apparatus with respect to each track on the recording medium depending on the write and/or erase power.

17. (Currently amended) The storage apparatus as claimed in claim 16, wherein said settingchanging section decreases the write and/or erase slice level depending on an increase of the write and/or erase power or, increases the write and/or erase slice level depending on a decrease of the write and/or erase power.

18. (Currently amended) The storage apparatus as claimed in claim 16, wherein said settingchanging section also setschanges an off-track detection time constant depending on the write and/or erase power.

19. (Currently amended) The storage apparatus as claimed in claim 16, wherein said settingchanging section also setschanges a shock detection time constant for detecting an external vibration or shock depending on the write and/or erase power.

20. (Currently amended) A storage apparatus having a function of changing a write and/or erase power of which writes and/or erases information by irradiating a light beam with respect to a target track on a recording medium, comprising: a setting section for setting configured to set a write and/or erase power of

the light beam depending on a region of the recording medium where the target track is located; and

a changing section configured to change at least one parameter selected from write and/or erase parameters depending on the write and/or erase power, said write and/or erase parameters including a write and/or erase slice level for detecting an off-track of the light beam with respect to a track on the recording medium, an off-track detection time constant, a write and/or erase slice level for detecting an external vibration or shock applied on the storage apparatus, and a shock detection time constant for detecting the external vibration or shock.

21. (Currently amended) The storage apparatus as claimed in claim 20, wherein a dependency ofwith which the write parameters are changed with respect to the write power is different from a dependency ofwith which the erase parameters are changed with respect to the erase power.

22. (Currently amended) The storage apparatus as claimed in claim 20, further comprising:

a judging section for judgingconfigured to judge a type of the recording medium,

wherein said setting section setting changing section changes said at least one parameter when said judging section judges that the recording medium is a high-density recording medium.